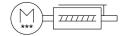
Mini slide unit EGSS-BS-KF-32-25-8P-ST-M-H1-PLK-AA

FESTO

Part number: 8083801





Data sheet

Feature	Value
Working stroke	25 mm
Size	32
Stroke reserve	0 mm
Screw diameter	8 mm
Spindle pitch	8 mm/U
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electrical mini-slide with ball screw drive With integrated drive
Spindle type	Ball screw drive
Position sensing	Motor encoder For proximity sensor
Rotor position sensor	Absolute encoder, single-turn
Rotor position sensor measuring principle	Magnetic
Additional functions	User interface Integrated end-position sensing
Display	LED
Max. acceleration	5 m/s ²
Max. speed	0.19 m/s
Repetition accuracy	±0.015 mm
Characteristics of digital logic outputs	Configurable Not galvanically isolated
Duty cycle	100%
Insulation protection class	В
Max. current of digital logic outputs	100 mA
Max. current consumption	3 A
Logic max. current consumption	300 mA
DC nominal voltage	24 V
Nominal current	3 A
Parameterization interface	IO-Link® User interface
Permissible voltage fluctuations	+/- 15 %

Power supply, Connection Power Pow	Feature	Value
Power supply, number of pins/wires 4 RCM compliance mark	Power supply, type of connection	Plug
Certification Remark E marking (See declaration of conformity) As per EU RIA Circcive Corrosion resistance class (CRC) O No corrosion stesses ASS (PWIS) conformity VDMA2364 can tell Storage temperature - 20 °C60 °C Belative air humidity O - 90 %. Degree of protection PIPA0 Ambient temperature Above an ambient temperature personal perso	Power supply, connection technology	M12x1, T-coded as per EN 61076-2-111
E marking (see declaration of conformity) As per EU Rd Girective Cornosion resistance class (CRC) O - No cornosion stress LABS (PWS) conformity VDMA24364 zone III Storage temperature 20 °C60 °C Relative air humidity O - 90 % Degree of protection Note on ambient temperature O °C50 °C Relative air humidity O - 90 % Degree of protection Note on ambient temperature O °C50 °C Note on ambient temperature O Store IY Max. Force IY O Put IN Nox. Force IY O Put IN Nox. Force IY O Put IN Nox. Force IV O Nox. Force IV	Power supply, number of pins/wires	4
As per EU Norls directive	Certification	RCM compliance mark
ABS (PWIS) conformity Storage temperature 20 °C60 °C Relative air humidity 0 - 90 % Degree of protection Ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. force Fy Max. force Fy Max. force Fy Max. force Fz 991 N Fy with theoretical service life of 100 km (from a guide perspective only) Exith theoretical service life of 100 km (from a guide perspective only) Max. torque My	CE marking (see declaration of conformity)	
Relative air humidity O - 90 % Relative air humidity O - 90 % Relative air humidity O - 90 % Degree of protection Note on ambient temperature O - 90 %- 90 % Note on ambient temperature Note on ambient temperature Above an ambient temperature Po - 90 N Max. Force Fy 991 N Max. Force Fz 991 N Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Max. torque My All State of the service life of 100 km (from a guide perspective only) Max. torque My All State of the service life of 100 km (from a guide perspective only) Max. with theoretical service life of 100 km (from a guide perspective only) Max. with theoretical service life of 100 km (from a guide perspective only) Max. with theoretical service life of 100 km (from a guide perspective only) Max. with theoretical service life of 100 km (from a guide perspective only) Max. with theoretical service life of 100 km (from a guide perspective only) Max. with theoretical service life of 100 km (from a guide perspective only) Max. with theoretical service life of 100 km (from a guide perspective only) Max. with theoretical service life of 100 km (from a guide perspective only) Max. read force on actuator shaft All N Max. read force Px Guide value for payload, horizontal Quide value for payload, hori	Corrosion resistance class (CRC)	0 - No corrosion stress
Relative air humidity Degree of protection Rote on ambient temperature OF CL.50 °C Note on ambient temperature Por Whax. force Fy Por Por Por Note Py Por Whax. force Fy Por What heroretical service life of 100 km (from a guide perspective only) Fiz with theoretical service life of 100 km (from a guide perspective only) Nax. torque Mx Nax. torque Mx Nax. torque My Nax. tor	LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection Ambient temperature Ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 28 per K. Max. force F2 991 N Max. force F2 991 N Max. force F2 991 N Max. torque F2 F2 with theoretical service life of 100 km (from a guide perspective only) 12135 N F2 with theoretical service life of 100 km (from a guide perspective only) 12135 N Max. torque Mx M	Storage temperature	-20 °C60 °C
Ambient temperature Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2°S, per K. Max. force Fy 991 N Max. force Fz 991 N Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Ax. torque Mx Mx. torque Mx Mx Mx. torque Mx Mx Mx. torque Mx Mx Mx. torque	Relative air humidity	0 - 90 %
Note on ambient temperature Above an ambient temperature of 30°C, the power must be reduced by 2% per K. Max. force Fy 991 N Max. force Fz 991 N Ty with theoretical service life of 100 km (from a guide perspective only) 2135 N Tax with theoretical service life of 100 km (from a guide perspective only) 2135 N Max. torque Mx 3.4 Nm Max. torque Mx 3.17 Nm Max. torque Mx 3.17 Nm Mx. with theoretical service life of 100 km (from a guide perspective only) 3.17 Nm Mx. with theoretical service life of 100 km (from a guide perspective only) 4.10 Nm Mx. with theoretical service life of 100 km (from a guide perspective only) 5.10 Nm Mx. with theoretical service life of 100 km (from a guide perspective only) 7.10 Nm Mx. with theoretical service life of 100 km (from a guide perspective only) 8.2 kg Mx with theoretical service life of 100 km (from a guide perspective only) 7.2 Nm Mx. with theoretical service life of 100 km (from a guide perspective only) 8.3 kg Mx with theoretical service life of 100 km (from a guide perspective only) 7.3 Nm Mx. red force on actuator shaft 10.0 N Mx. red force on actuator	Degree of protection	IP40
Page	Ambient temperature	0 °C50 °C
Max. force 72 Fy with theoretical service life of 100 km (from a guide perspective only) Fy with theoretical service life of 100 km (from a guide perspective only) Amax. torque Mx Ax.	Note on ambient temperature	
ry with theoretical service life of 100 km (from a guide perspective only) Fz with theoretical service life of 100 km (from a guide perspective only) Axx. torque Mx Axx. torque My Axx. t	Max. force Fy	991 N
Fz with theoretical service life of 100 km (from a guide perspective only) Max. torque Mx As. torque MY As with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) As. validation of the organization of the organ	Max. force Fz	991 N
Max. torque Mx Max. torque My Max. torque Mx	Fy with theoretical service life of 100 km (from a guide perspective only)	2135 N
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Mx with theoretical service life of 100 km (from a guide perspective only) My with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Mx. radial force on actuator shaft 140 N Mx. redeforce FX 60 N Guide value for payload, horizontal 2 kg Guide value for payload, vertical 2 kg Feed constant 8 mm/U Reference service life 5000 km Moving mass at 0 mm stroke 149 g Additional moving mass per 10 mm stroke 12 g Product weight 999 g Basic weight with 0 mm stroke 22 kg Additional weight per 10 mm stroke 30 g Number of digital logic inputs 24 V DC 2 Number of digital logic inputs Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move in) 1 bit (gate device) 1 bit (state in) 1 bit (state out) 10-Link®, service data contents IN 2 bit force 32 bit position 32 bit speed 10-Link®, data memory required 10-Link®, data memory required	Max. torque My	3.17 Nm
My with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Mz with theoretical service life of 100 km (from a guide perspective only) Max. radial force on actuator shaft 140 N Max. feed force Fx 60 N Guide value for payload, horizontal 2 kg Guide value for payload, vertical 7 kg Feed constant 8 mm/U Reference service life 5000 km Moving mass at 0 mm stroke 149 g Additional moving mass per 10 mm stroke 12 g Product weight 999 g Basic weight with 0 mm stroke Additional weight per 10 mm stroke 30 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 4 V Characteristics of logic input Characteristics of logic input 1 bit (move in) 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (state device) 1 bit (state in) 1 bit (state in) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit speed IO-Link®, data memory required IO-Link®, data memory required	Max. torque Mz	3.17 Nm
Mz with theoretical service life of 100 km (from a guide perspective only) Mx with theoretical service life of 100 km (from a guide perspective only) Max. radial force on actuator shaft 140 N Max. feed force Fx 60 N Guide value for payload, horizontal 2 kg Feed constant 8 mm/U Reference service life 5000 km Moving mass at 0 mm stroke 149 g Additional moving mass per 10 mm stroke 12 g Product weight 999 g Basic weight with 0 mm stroke 30 g Number of digital logic outputs 24 V DC 2 Number of digital logic input Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error) 1 bit (quit error) 1 bit (state device) 1 bit (state in) 1 bit (state in) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit speed IO-Link®, data memory required		10 Nm
only) Max. radial force on actuator shaft Max. feed force Fx Goulde value for payload, horizontal Guide value for payload, vertical Peed constant Reference service life Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 12 g Product weight with 0 mm stroke Additional weight per 10 mm stroke 30 g Number of digital logic outputs 24 V DC Number of logic input Characteristics of logic input Characteristics of logic input Ol-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (move in) 1 bit (move intermediate) 1 bit (State herwediate) 1 bit (State move) 1 bit (State move) 1 bit (State intermediate) 1 bit (State out) 10-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed 10-Link®, data memory required 0.5 KB		7 Nm
Max. feed force Fx Guide value for payload, horizontal 2 kg Guide value for payload, vertical 2 kg Feed constant 8 mm/U Reference service life 5000 km Moving mass at 0 mm stroke 149 g Additional moving mass per 10 mm stroke 12 g Product weight 999 g Basic weight with 0 mm stroke 924 g Additional weight per 10 mm stroke 30 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Work range of logic input Characteristics of logic input Characteristics of logic input 10-Link®, process data content OUT 1 bit (move out) 1 bit (move out) 1 bit (move out) 1 bit (move intermediate) 10-Link®, process data contents IN 2 bit force 3 bit force 3 bit force 3 bit force 3 bit position 3 2 bit speed 10-Link®, data memory required 0.5 KB		7 Nm
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Guide value for payload, vertical Peed constant Reference service life Source Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke 12 g Product weight Product weight with 0 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic input Configurable Not galvanically isolated 10-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error) 1 bit (state device) 1 bit (state innove) 1 bit (state innove) 1 bit (state innove) 1 bit (state innove) 1 bit (state out) 10-Link®, service data contents IN 32 bit position 32 bit speed 10-Link®, data memory required 0.5 KB	Max. feed force Fx	60 N
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Reference service life 5000 km Moving mass at 0 mm stroke 149 g Additional moving mass per 10 mm stroke 12 g Product weight 999 g Basic weight with 0 mm stroke 924 g Additional weight per 10 mm stroke 30 g Number of digital logic outputs 24 V DC 2 Number of digital logic input 24 V Characteristics of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (state move) 1 bit (state move) 1 bit (state move) 1 bit (state out) IO-Link®, service data contents IN 32 bit speed IO-Link®, data memory required 0.5 KB	Guide value for payload, vertical	2 kg
Moving mass at 0 mm stroke Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic input Characteristics of logic input Dit (move in) 1 bit (move out) 1 bit (move in) 1 bit (move in) 1 bit (state device) 1 bit (state device) 1 bit (state move) 1 bit (state move) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Feed constant	8 mm/U
Additional moving mass per 10 mm stroke Product weight Basic weight with 0 mm stroke 924 g Additional weight per 10 mm stroke 30 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 2 Work range of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (state move) 1 bit (state move) 1 bit (state out) 2 bit speed	Reference service life	5000 km
Product weight 999 g Basic weight with 0 mm stroke 924 g Additional weight per 10 mm stroke 30 g Number of digital logic outputs 24 V DC 2 Number of digital logic inputs 24 V Work range of logic input 24 V Characteristics of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (quit error) 1 bit (move in) 1 bit (state device) 1 bit (state device) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required 0.5 KB	Moving mass at 0 mm stroke	149 g
Basic weight with 0 mm stroke Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Work range of logic input Characteristics of logic input IO-Link®, process data content OUT Ibit (move in) 1 bit (move out) 1 bit (move in) 1 bit (move intermediate) 1 bit (state device) 1 bit (state move) 1 bit (state int) 1 bit (state intermediate) 1 bit (state out)	Additional moving mass per 10 mm stroke	12 g
Additional weight per 10 mm stroke Number of digital logic outputs 24 V DC Number of digital logic inputs 2 Work range of logic input Characteristics of logic input Characteristics of logic input IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (state intermediate) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Product weight	999 g
Number of digital logic outputs 24 V DC Number of digital logic input Work range of logic input Characteristics of logic input Characteristics of logic input O-Link®, process data content OUT D-Link®, process data content IN D-Link®, service data contents IN D-Link®, data memory required D-Link®, data memory required D-Link®, data memory required	Basic weight with 0 mm stroke	924 g
Number of digital logic inputs 24 V Characteristics of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (move out) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (state intermediate) 1 bit (state intermediate) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Additional weight per 10 mm stroke	30 g
Work range of logic input Characteristics of logic input Configurable Not galvanically isolated IO-Link®, process data content OUT 1 bit (move in) 1 bit (quit error) 1 bit (move intermediate) IO-Link®, process data content IN 1 bit (state device) 1 bit (state Intermediate) 1 bit (state in) 1 bit (state in) 1 bit (state out) IO-Link®, service data contents IN 32 bit force 32 bit position 32 bit speed IO-Link®, data memory required O.5 KB	Number of digital logic outputs 24 V DC	2
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32 bit position 32 bit speed IO-Link®, data memory required 0.5 KB	IO-Link®, process data content IN	1 bit (State Intermediate) 1 bit (state move) 1 bit (state in)
	IO-Link®, service data contents IN	32 bit position
Input switching logic PNP (positive switching)	IO-Link®, data memory required	0.5 KB
	Input switching logic	PNP (positive switching)

Feature	Value
Logic interface, connection type	Plug
Logic interface, connection technology	M12x1, A-coded as per EN 61076-2-101
Logic interface, number of poles/wires	8
Type of mounting	With internal thread With centering sleeve With accessories With cylindrical pin
Note on materials	RoHS-compliant
Slide carriage material	Roller bearing steel
Guide rail material	Roller bearing steel
Spindle material	Roller bearing steel